

Survey Report for Lake Antoine, Summer, 2014

Waterbody	Lake Antonine
Year	Summer, 2014
Sites	"Lake Antoine"
Survey period	April 1 to October 31
Survey design	Access site
Clerk time	Full
Survey purpose	Characterize general effort and catch aspects of the fishery

Notes

Survey followed a access site design. All funding was provided through Fisheries Division. One clerk worked full time to collect angler survey data. Both weekend days and 3 randomly selected weekdays were selected for sampling during each week of the survey season. No holidays were sampled. Clerk followed a randomized count and interview schedule. One of two shifts was selected each sample day. The entire water body was sampled each day. Two counts of boat, shore and dock anglers were made per day. Survey period for both counts and interviews was April 1 to October 31. Months were estimated separately. Estimates are given in the following tables.

Table –Work shifts used to estimate catch and effort at Lake Antoine, April 1 to October 31, Summer, 2014

	Year	Month	Hrs/day
1	2014	4	15
2	2014	5	16
3	2014	6	17
4	2014	7	17
5	2014	8	16
6	2014	9	15
7	2014	10	14

Estimated harvest, catch per hour, and fishing pressure for boat. Two standard errors are given in parentheses.

Species	C/H	April	May	June	July	August	September	October	Season
HARVEST									
Walleye	0.0025 (0.0037)	0 (0)	0 (0)	0 (0)	11 (22)	6 (13)	0 (0)	0 (0)	17 (25)
Northern pike	0.0017 (0.0033)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	11 (22)	0 (0)	11 (22)
Smallmouth bass	0.0052 (0.0047)	0 (0)	0 (0)	0 (0)	0 (0)	12 (16)	23 (26)	0 (0)	35 (31)
Yellow Perch	0.1220 (0.1007)	0 (0)	0 (0)	450 (609)	74 (84)	12 (24)	288 (262)	0 (0)	825 (669)
Bluegill	0.1095 (0.1231)	0 (0)	43 (85)	96 (166)	506 (789)	6 (12)	88 (147)	0 (0)	740 (824)
Pumpkinseed	0.0238 (0.0316)	0 (0)	0 (0)	83 (163)	11 (20)	0 (0)	68 (135)	0 (0)	161 (212)
Rock bass	0.0072 (0.0094)	0 (0)	11 (21)	28 (56)	11 (21)	0 (0)	0 (0)	0 (0)	49 (63)
OTH1	0.0055 (0.0105)	0 (0)	0 (0)	0 (0)	0 (0)	37 (71)	0 (0)	0 (0)	37 (71)
TOTAL HARVEST	0.2772 (0.1664)	0 (0)	53 (88)	656 (654)	612 (795)	74 (79)	478 (331)	0 (0)	1,874 (1,088)
RELEASED									
Walleye	0.0041 (0.0050)	0 (0)	0 (0)	0 (0)	11 (22)	6 (12)	11 (22)	0 (0)	28 (34)
Northern pike	0.0188 (0.0170)	0 (0)	76 (102)	28 (39)	0 (0)	23 (29)	0 (0)	0 (0)	127 (113)
Largemouth bass	0.0768 (0.0464)	0 (0)	57 (65)	337 (280)	11 (20)	53 (61)	44 (72)	18 (20)	519 (304)
Smallmouth bass	0.3414 (0.1313)	0 (0)	333 (456)	747 (402)	390 (262)	612 (428)	172 (194)	54 (59)	2,308 (814)
Yellow Perch	0.5223 (0.2414)	0 (0)	53 (107)	1,573 (1,220)	633 (470)	402 (484)	861 (643)	9 (10)	3,531 (1,540)
Bluegill	0.7994 (0.4046)	0 (0)	849 (834)	1,925 (1,367)	1,677 (1,969)	708 (534)	245 (255)	0 (0)	5,404 (2,606)
Pumpkinseed	0.0020 (0.0041)	0 (0)	0 (0)	14 (27)	0 (0)	0 (0)	0 (0)	0 (0)	14 (27)
Rock bass	0.0950 (0.0506)	0 (0)	0 (0)	412 (291)	127 (106)	70 (92)	34 (55)	0 (0)	642 (328)
Black crappie	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
OTH1	0.0168 (0.0288)	0 (0)	0 (0)	0 (0)	21 (44)	92 (189)	0 (0)	0 (0)	114 (194)
OTH2	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
TOTAL RELEASED	1.8766 (0.5509)	0 (0)	1,368 (964)	5,034 (1,920)	2,869 (2,045)	1,968 (867)	1,368 (725)	81 (63)	12,687 (3,174)
TOTAL CATCH	2.1537 (0.5965)	0 (0)	1,421 (968)	5,691 (2,028)	3,481 (2,194)	2,042 (870)	1,846 (797)	81 (63)	14,561 (3,355)
ANGLER HOURS		0 (0)	747 (391)	1,749 (545)	1,561 (474)	1,570 (480)	1,033 (412)	102 (63)	6,761 (1,039)
ANGLER TRIPS		0 (0)	277 (157)	578 (199)	540 (199)	478 (164)	274 (127)	37 (36)	2,184 (385)

Estimated harvest, catch per hour, and fishing pressure for dock. Two standard errors are given in parentheses.

Species	C/H	April	May	June	July	August	Sept	October	Season
HARVEST									
Walleye	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Northern pike	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Smallmouth bass	0.0059 (0.0135)	0 (0)	0 (0)	0 (0)	8 (18)	0 (0)	0 (0)	0 (0)	8 (18)
Yellow Perch	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Bluegill	0.0256 (0.0412)	0 (0)	0 (0)	33 (53)	0 (0)	0 (0)	0 (0)	0 (0)	33 (53)
Pumpkinseed	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Rock bass	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
OTH1	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
TOTAL HARVEST	0.0315 (0.0437)	0 (0)	0 (0)	33 (53)	8 (18)	0 (0)	0 (0)	0 (0)	41 (56)
RELEASED									
Walleye	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Northern pike	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Largemouth bass	0.0075 (0.0116)	0 (0)	0 (0)	10 (15)	0 (0)	0 (0)	0 (0)	0 (0)	10 (15)
Smallmouth bass	0.0398 (0.0400)	0 (0)	0 (0)	26 (42)	18 (26)	0 (0)	8 NAN	0 (0)	52 (50)
Yellow Perch	1.2516 (0.8068)	0 (0)	0 (0)	1,166 (852)	460 (340)	8 (15)	3 NAN	0 (0)	1,638 (917)
Bluegill	1.7225 (0.8856)	0 (0)	0 (0)	1,165 (788)	599 (451)	248 NAN	242 NAN	0 (0)	2,255 (908)
Pumpkinseed	0.0330 (0.0496)	0 (0)	0 (0)	40 (63)	0 (0)	0 (0)	3 NAN	0 (0)	43 (63)
Rock bass	0.3109 (0.1275)	0 (0)	0 (0)	104 (91)	25 (33)	34 (40)	244 NAN	0 (0)	407 (105)
Black crappie	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
OTH1	0.0385 (0.0645)	0 (0)	0 (0)	0 (0)	0 (0)	50 (83)	0 (0)	0 (0)	50 (83)
OTH2	0.0385 (0.0791)	0 (0)	0 (0)	0 (0)	0 (0)	50 (102)	0 (0)	0 (0)	50 (102)
TOTAL RELEASED	3.4422 (1.4800)	0 (0)	0 (0)	2,511 (1,167)	1,103 (567)	391 NAN	500 NAN	0 (0)	4,506 (1,297)
TOTAL CATCH	3.4737 (1.4881)	0 (0)	0 (0)	2,545 (1,168)	1,110 (567)	391 NAN	500 NAN	0 (0)	4,547 (1,298)
ANGLER HOURS		0 (0)	56 (50)	656 (291)	335 (163)	107 (93)	155 (229)	0 (0)	1,309 (418)
ANGLER TRIPS		0 (0)	31 (30)	349 (173)	201 (104)	71 (64)	92 (139)	0 (0)	745 (255)

Estimated harvest, catch per hour, and fishing pressure for shore. Two standard errors are given in parentheses.

Species	C/H	April	May	June	July	August	Sept	October	Season
HARVEST									
Walleye	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Northern pike	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Smallmouth bass	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Yellow Perch	0.1079 (0.1605)	0 (0)	0 (0)	144 (259)	0 (0)	46 (104)	0 (0)	0 (0)	190 (279)
Bluegill	0.0204 (0.0412)	0 (0)	0 (0)	36 (72)	0 (0)	0 (0)	0 (0)	0 (0)	36 (72)
Pumpkinseed	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Rock bass	0.0311 (0.0616)	0 (0)	0 (0)	0 (0)	55 (108)	0 (0)	0 (0)	0 (0)	55 (108)
OTH1	0.0598 (0.0762)	0 (0)	0 (0)	0 (0)	105 (132)	0 (0)	0 (0)	0 (0)	105 (132)
TOTAL HARVEST	0.2192 (0.1969)	0 (0)	0 (0)	180 (269)	160 (170)	46 (104)	0 (0)	0 (0)	386 (335)
RELEASED									
Walleye	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Northern pike	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Largemouth bass	0.0068 (0.0137)	0 (0)	0 (0)	12 (24)	0 (0)	0 (0)	0 (0)	0 (0)	12 (24)
Smallmouth bass	0.0755 (0.0925)	0 (0)	0 (0)	123 (159)	0 (0)	8 (15)	3 (5)	0 (0)	133 (160)
Yellow Perch	1.0079 (0.5533)	0 (0)	116 (206)	1,196 (799)	217 (188)	245 (242)	1 (3)	0 (0)	1,776 (881)
Bluegill	2.4216 (1.1931)	0 (0)	1,684 (1,336)	1,829 (1,137)	626 (557)	125 (137)	3 (5)	0 (0)	4,267 (1,846)
Pumpkinseed	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Rock bass	0.1805 (0.1183)	0 (0)	0 (0)	146 (157)	107 (87)	63 (74)	1 (3)	0 (0)	318 (195)
Black crappie	0.0136 (0.0287)	0 (0)	0 (0)	24 (50)	0 (0)	0 (0)	0 (0)	0 (0)	24 (50)
OTH1	0.3303 (0.2558)	0 (0)	0 (0)	0 (0)	284 (297)	298 (310)	0 (0)	0 (0)	582 (429)
OTH2	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
TOTAL RELEASED	4.0362 (1.5274)	0 (0)	1,800 (1,352)	3,330 (1,409)	1,234 (664)	740 (424)	8 (8)	0 (0)	7,111 (2,106)
TOTAL CATCH	4.2553 (1.5716)	0 (0)	1,800 (1,352)	3,510 (1,435)	1,394 (686)	786 (436)	8 (8)	0 (0)	7,498 (2,132)
ANGLER HOURS		0 (0)	366 (225)	684 (243)	479 (204)	212 (142)	21 (30)	0 (0)	1,762 (415)
ANGLER TRIPS		0 (0)	179 (115)	338 (132)	260 (116)	156 (114)	12 (18)	0 (0)	946 (239)

Estimated harvest, catch per hour, and fishing pressure for all modes combined. Two standard errors are given in parentheses.

Species	C/H	May	June	July	August	September	October	Season
HARVEST								
Walleye	0.0017 (0.0026)	0 (0)	0 (0)	11 (22)	6 (13)	0 (0)	0 (0)	17 (25)
Northern pike	0.0011 (0.0022)	0 (0)	0 (0)	0 (0)	0 (0)	11 (22)	0 (0)	11 (22)
Smallmouth bass	0.0043 (0.0037)	0 (0)	0 (0)	8 (18)	12 (16)	23 (26)	0 (0)	43 (36)
Yellow Perch	0.1032 (0.0748)	0 (0)	594 (662)	74 (84)	58 (107)	288 (262)	0 (0)	1015 (725)
Bluegill	0.0823 (0.0849)	43 (85)	166 (188)	506 (789)	6 (12)	88 (147)	0 (0)	809 (829)
Pumpkinseed	0.0163 (0.0217)	0 (0)	83 (163)	11 (20)	0 (0)	68 (135)	0 (0)	161 (212)
Rock bass	0.0105 (0.0128)	11 (21)	28 (56)	65 (110)	0 (0)	0 (0)	0 (0)	103 (125)
OTH1	0.0145 (0.0153)	0 (0)	0 (0)	105 (132)	37 (71)	0 (0)	0 (0)	142 (150)
TOTAL HARVEST	0.2341 (0.1193)	53 (88)	870 (709)	780 (813)	120 (130)	478 (331)	0 (0)	2301 (1140)
RELEASED								
Walleye	0.0028 (0.0034)	0 (0)	0 (0)	11 (22)	6 (12)	11 (22)	0 (0)	28 (34)
Northern pike	0.0129 (0.0116)	76 (102)	28 (39)	0 (0)	23 (29)	0 (0)	0 (0)	127 (113)
Largemouth bass	0.055 (0.0317)	57 (65)	358 (281)	11 (20)	53 (61)	44 (72)	18 (20)	541 (305)
Smallmouth bass	0.2536 (NAN)	333 (456)	896 (434)	408 (264)	620 (428)	183 (NAN)	54 (59)	2493 (NAN)
Yellow Perch	0.7064 (NAN)	170 (232)	3935 (1689)	1310 (610)	656 (542)	865 (NAN)	9 (10)	6945 (NAN)
Bluegill	1.213 (NAN)	2533 (1575)	4918 (1945)	2903 (2095)	1081 (NAN)	490 (NAN)	0 (0)	11926 (NAN)
Pumpkinseed	0.0058 (NAN)	0 (0)	54 (69)	0 (0)	0 (0)	3 (NAN)	0 (0)	57 (NAN)
Rock bass	0.1391 (NAN)	0 (0)	662 (343)	259 (141)	167 (125)	279 (NAN)	0 (0)	1367 (NAN)
Black crappie	0.0024 (0.0051)	0 (0)	24 (50)	0 (0)	0 (0)	0 (0)	0 (0)	24 (50)
OTH1	0.0759 (0.0495)	0 (0)	0 (0)	305 (300)	441 (372)	0 (0)	0 (0)	746 (478)
OTH2	0.0051 (0.0104)	0 (0)	0 (0)	0 (0)	50 (102)	0 (0)	0 (0)	50 (102)
TOTAL RELEASED	2.472 (NAN)	3168 (1661)	10875 (2652)	5206 (2223)	3099 (NAN)	1876 (NAN)	81 (63)	24304 (NAN)
TOTAL CATCH	2.7061 (NAN)	3222 (1663)	11745 (2745)	5985 (2367)	3219 (NAN)	2354 (NAN)	81 (63)	26606 (NAN)

ANGLER HOURS	1169	3089	2375	1889	1208	102	9832
	(454)	(664)	(541)	(509)	(472)	(63)	(1194)
ANGLER TRIPS	456	1265	1001	723	435	37	3917
	(194)	(294)	(253)	(NAN)	(NAN)	(36)	(NAN)